

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/086166 A3

(51) International Patent Classification⁷: **G06F 1/00**

(21) International Application Number:
PCT/JP2004/003945

(22) International Filing Date: 23 March 2004 (23.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-080266 24 March 2003 (24.03.2003) JP

(71) Applicant (for all designated States except US): **MAT-SUSHITA ELECTRIC INDUSTRIAL CO. LTD.**
[JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka,
5718501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WEBER, Daniel.**
WALTER, Stefan. KUBOTA, Kenichi.

(74) Agents: **KAWAMIYA, Osamu** et al.; **AOYAMA & PART-
NERS** IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Os-
aka-shi, Osaka, 5400001 (JP).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

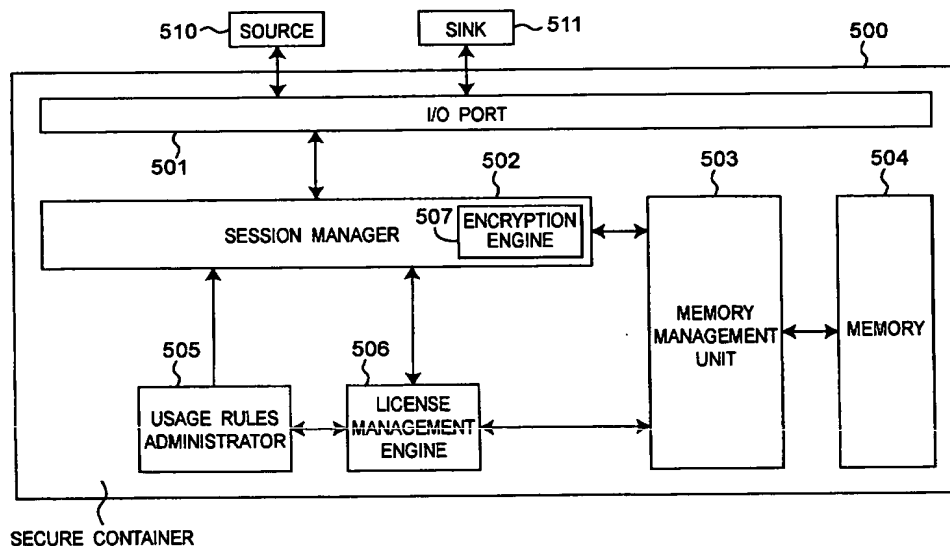
— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
14 April 2005

[Continued on next page]

(54) Title: **DATA PROTECTION MANAGEMENT APPARATUS AND DATA PROTECTION MANAGEMENT METHOD**



(57) Abstract: The data protection management apparatus protects digital licenses and digital data, so that the abuse and illegal use of digital data is prevented. The apparatus has an I/O port, session manager, license management engine, usage rules administrator, encryption engine, memory manager, and memory. The license management engine acquires, stores, and manages licenses in sessions opened by the session manager, and the usage rules administrator provides an encryption algorithm and protocol for securely storing and sending digital license data by applying the usage rules to the use of licenses managed by the license management engine.

WO 2004/086166 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/003945

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/54128 A (CURL CORPORATION; WARD, STEPHEN, A; MAZER, MURRAY, S; HOOVER, SUSAN, B) 14 September 2000 (2000-09-14) page 10, line 1 - page 25, line 3 figure 3	1-20
A	EP 1 195 734 A (SONY CORPORATION) 10 April 2002 (2002-04-10) paragraph '0393!	9, 10, 19, 20
A	US 2003/014655 A1 (ENGLAND PAUL ET AL) 16 January 2003 (2003-01-16) paragraph '0009! - paragraph '0017! paragraph '0127! - paragraph '0140!	1-20
X	US 2002/138435 A1 (WILLIAMS L. LLOYD ET AL) 26 September 2002 (2002-09-26) abstract paragraph '0009! - paragraph '0017!	1, 11

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *I* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

4 February 2005

Date of mailing of the international search report

10/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Segura, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/003945

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0054128	A	14-09-2000	US 6766305 B1 AU 3522800 A BR 0008948 A CA 2366834 A1 CN 1346455 T EP 1163565 A1 JP 2002539515 T MX PA01009194 A WO 0054128 A1	20-07-2004 28-09-2000 26-12-2001 14-09-2000 24-04-2002 19-12-2001 19-11-2002 14-07-2003 14-09-2000
EP 1195734	A	10-04-2002	JP 2001203686 A JP 2001211148 A JP 2001209310 A JP 2001211149 A JP 2001211151 A JP 2001211152 A JP 2001211080 A AU 2707401 A BR 0104356 A CA 2365236 A1 EP 1195734 A1 US 2002169971 A1 CA 2400786 A1 CN 1363077 T CN 1420480 A EP 1267515 A2 WO 0154099 A1 NZ 513862 A TW 514843 B US 2003233559 A1	27-07-2001 03-08-2001 03-08-2001 03-08-2001 03-08-2001 03-08-2001 03-08-2001 31-07-2001 19-02-2002 26-07-2001 10-04-2002 14-11-2002 26-07-2001 07-08-2002 28-05-2003 18-12-2002 26-07-2001 28-09-2001 21-12-2002 18-12-2003
US 2003014655	A1	16-01-2003	NONE	
US 2002138435	A1	26-09-2002	BR 0208399 A WO 02078287 A1 CA 2349486 A1 EP 1374526 A1	15-06-2004 03-10-2002 26-09-2002 02-01-2004